



SPYWOLF

Security Audit Report



Audit prepared for
Blastex

Completed on
March 20, 2024

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KEY RESULTS

| | |
|--|--------|
| Cannot mint new tokens | ** |
| Cannot pause trading (honeypot) | * |
| Cannot blacklist an address | Passed |
| Cannot raise taxes over 25%? | Passed |
| No proxy contract detected | Passed |
| Not required to enable trading | * |
| No hidden ownership | Passed |
| Cannot change the router | Passed |
| No cooldown feature found | Passed |
| Bot protection delay is lower than 5 blocks | Passed |
| Cannot set max tx amount below 0.05% of total supply | Passed |
| The contract cannot be self-destructed by owner | Passed |

For a more detailed and thorough examination of the heightened risks, refer to the subsequent parts of the report.

*Only new deposits/reinvestments can be paused

**New tokens can be minted only via the staking contract’s bonding mechanism





OVERVIEW

This goal of this report is to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

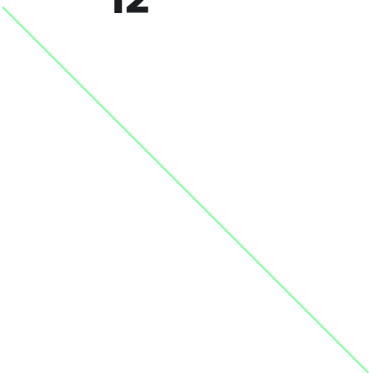
”



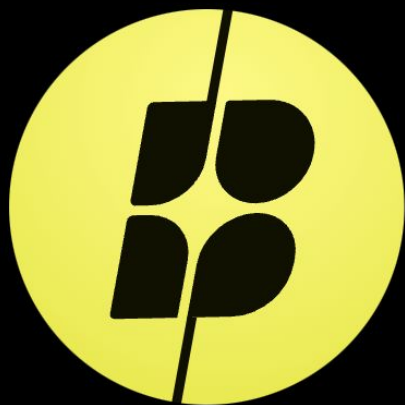


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Blastex



Blastex

PROJECT DESCRIPTION

According to their website:

Blastex is a disruptive Ethereum staking protocol that leverages the Blast native ETH yield, gas sharing, and Blast Points to lead the passive income revolution along with its community.

Make your ETH work for you on multiple levels while farming Blast Points yields and Blast Points.

Release Date: Launching in March, 2024

Category: Staking

01



CONTRACT INFO

Token Name
N/A

Symbol
N/A

Contract Address
0x8C1DBB14c012bCCdB3477bc1625A3DCfD0F61ac2

Network
Blast

Language
Solidity

Deployment Date
March 19, 2024

Contract Type
Staking

Total Supply
N/A

Status
Not launched

TAXES

Buy Tax
10%

Sell Tax
n/a

Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

| | |
|-------------------------|-----|
| Transfer Count | N/A |
| Uniq Senders | N/A |
| Uniq Receivers | N/A |
| Total Amount | N/A |
| Median Transfer Amount | N/A |
| Average Transfer Amount | N/A |
| First transfer date | N/A |
| Last transfer date | N/A |
| Days token transferred | N/A |

SMART CONTRACT STATS

| | |
|-----------------------|--|
| Calls Count | N/A |
| External calls | N/A |
| Internal calls | N/A |
| Transactions count | N/A |
| Uniq Callers | N/A |
| Days contract called | N/A |
| Last transaction time | Mar-19-2024 05:10:29 PM +UTC |
| Created | Mar-19-2024 05:08:45 PM +UTC |
| Create TX | 0x5e554dd702fd7ee698b355755b65006b12e70958a99dd9e2c8fec98c9130c933 |
| Creator | 0x6d9725ffec14648300bc7bc6c9c0dd5ea631b39e |



VULNERABILITY ANALYSIS

| ID | Title | |
|---------|--------------------------------------|--------|
| SWC-100 | Function Default Visibility | Passed |
| SWC-101 | Integer Overflow and Underflow | Passed |
| SWC-102 | Outdated Compiler Version | Passed |
| SWC-103 | Floating Pragma | Passed |
| SWC-104 | Unchecked Call Return Value | Passed |
| SWC-105 | Unprotected Ether Withdrawal | Passed |
| SWC-106 | Unprotected SELFDESTRUCT Instruction | Passed |
| SWC-107 | Reentrancy | Passed |
| SWC-108 | State Variable Default Visibility | Passed |
| SWC-109 | Uninitialized Storage Pointer | Passed |
| SWC-110 | Assert Violation | Passed |
| SWC-111 | Use of Deprecated Solidity Functions | Passed |
| SWC-112 | Delegatecall to Untrusted Callee | Passed |
| SWC-113 | DoS with Failed Call | Passed |
| SWC-114 | Transaction Order Dependence | Passed |
| SWC-115 | Authorization through tx.origin | Passed |
| SWC-116 | Block values as a proxy for time | Passed |
| SWC-117 | Signature Malleability | Passed |
| SWC-118 | Incorrect Constructor Name | Passed |



VULNERABILITY ANALYSIS

| ID | Title | |
|---------|---|--------|
| SWC-119 | Shadowing State Variables | Passed |
| SWC-120 | Weak Sources of Randomness from Chain Attributes | Passed |
| SWC-121 | Missing Protection against Signature Replay Attacks | Passed |
| SWC-122 | Lack of Proper Signature Verification | Passed |
| SWC-123 | Requirement Violation | Passed |
| SWC-124 | Write to Arbitrary Storage Location | Passed |
| SWC-125 | Incorrect Inheritance Order | Passed |
| SWC-126 | Insufficient Gas Griefing | Passed |
| SWC-127 | Arbitrary Jump with Function Type Variable | Passed |
| SWC-128 | DoS With Block Gas Limit | Passed |
| SWC-129 | Typographical Error | Passed |
| SWC-130 | Right-To-Left-Override control character (U+202E) | Passed |
| SWC-131 | Presence of unused variables | Passed |
| SWC-132 | Unexpected Ether balance | Passed |
| SWC-133 | Hash Collisions With Multiple Variable Length Arguments | Passed |
| SWC-134 | Message call with hardcoded gas amount | Passed |
| SWC-135 | Code With No Effects | Passed |
| SWC-136 | Unencrypted Private Data On-Chain | Passed |



VULNERABILITY ANALYSIS

NO ERRORS FOUND



MANUAL CODE REVIEW

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time.

We categorize these vulnerabilities by 4 different threat levels.

THREAT LEVELS

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance, functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

Medium Risk

Administrators can create new bond for user, up to contract's current token balances.

```
function influencerBond(
    address userAddr, uint256 tokensAmount,
    address upline) external onlyModerator {
    require(tokensAmount > 1e18, "M04");
    require(!userAddr.isContract(), "X");
    require(userAddr != upline, "M03");
    require(users[userAddr].bondsNumber < Constants.BONDS_LIMIT, "01");
    require(IERC20(address(token)).balanceOf(address(this)) >= tokensAmount,
        "Insufficient token balance");
    if (upline == address(0x0)) {
        upline = DEFAULT_UPLINE;
    }
    if (users[userAddr].upline == address(0x0)) {
        users[userAddr].upline = upline;
        if (users[userAddr].lastActionTime == 0) {
            users[userAddr].lastActionTime = block.timestamp;
        }
    }

    users[upline].referrals.push(userAddr);
    for (uint256 i = 0; i < REFERRAL_DEPTH; i++) {
        users[upline].refsNumber[i]++;
        upline = users[upline].upline;

        if (upline == address(0x0)) {
            break;
        }
    }

    emit Events.NewUser(
        userAddr, upline, block.timestamp
    );
}

uint256 ethAmount = getETHAmount(tokensAmount);
uint8 bondIdx = newBond(userAddr, 4, ethAmount, 0);

token.burn(tokensAmount);

emit Events.NewBond(
    userAddr, 4, bondIdx, ethAmount, tokensAmount, false, block.timestamp
);
}
```

- Recommendation:
 - No bonds should be issued for free



FOUND THREATS

Informational

Owner can pause only new buys.

```
function pause() external onlyOwner {  
    _pause();  
}
```

Owner can activate/deactivate bonds 0 to 3.

```
bool[5] public BOND_ACTIVATIONS = [  
    true,  
    false,  
    false,  
    false,  
    false  
];  
  
function activateBondType(uint8 bondType) external onlyOwner {  
    require(bondType > 0 && bondType < 4, "U1");  
    BOND_ACTIVATIONS[bondType] = true;  
}  
  
function deactivateBondType(uint8 bondType) external onlyOwner {  
    require(bondType > 0 && bondType < 4, "U1");  
    BOND_ACTIVATIONS[bondType] = false;  
}
```



FOUND THREATS

Informational

Moderator can change tokens claim rate settings.

```
function newPeriod(  
  uint256 distributionPercent,  
  uint256 contributionDecreasePercent  
) external onlyModerator {  
  require(  
    (distributionPercent >= 50 && distributionPercent <= 500)  
    || (periodsNumber > 0 && distributionPercent == 0),  
    "M00"  
  );  
  require(  
    (contributionDecreasePercent >= 100 && contributionDecreasePercent <= 2000)  
    || (periodsNumber > 0 && contributionDecreasePercent == 0),  
    "M01"  
  );  
  
  require(  
    periodsNumber == 0 || lastPeriodIsClosed(),  
    "M02"  
  );  
  
  if (periodsNumber > 0 && periods[periodsNumber - 1].tvl == 0) {  
    (periods[periodsNumber - 1].tvl, ) = getTokenLiquidity();  
  }  
  
  periods[periodsNumber] = Models.Period({  
    tvl: 0,  
    distributionPercent: distributionPercent > 0  
      ? distributionPercent  
      : periods[periodsNumber - 1].distributionPercent,  
    contributionDecreasePercent: contributionDecreasePercent > 0  
      ? contributionDecreasePercent  
      : periods[periodsNumber - 1].contributionDecreasePercent,  
    startTime: block.timestamp  
  });  
  
  periodsNumber++;  
}
```



FOUND THREATS

Informational

Users can rebond their bonds on behalf of another user.

```
function rebond(uint256 tokensAmount, address receiver) external notContract {
    require(!receiver.isContract(), "20");
    if (receiver == address(0x0)) {
        receiver = msg.sender;
    }
    require(users[receiver].lastActionTime > 0, "21");

    require(users[receiver].bondsNumber < Constants.BONDS_LIMIT, "22");
    require(tokensAmount >= Constants.MIN_BOND_TOKENS, "23");
    require(userBalance(msg.sender) >= tokensAmount, "24");

    collect(msg.sender);
    Models.User storage user = users[msg.sender];
    require(user.balance >= tokensAmount, "24");

    user.balance -= tokensAmount;

    uint256 ethAmount = getETHAmount(tokensAmount);
    uint8 bondIdx = newBond(receiver, 0, ethAmount, 0);

    emit Events.ReBond(
        receiver, bondIdx, ethAmount, tokensAmount, block.timestamp
    );
}
```



FOUND THREATS

Informational

Owner can withdraw any tokens from the contract except the native BLASTEX token and LP token.

```
function retrieveERC20(address tokenAddress, uint256 amount) external onlyOwner {
    require(
        tokenAddress != address(token) && tokenAddress != address(flip)
    );

    if (amount == 0) {
        amount = IERC20(tokenAddress).balanceOf(address(this));
    }

    IERC20(tokenAddress).transfer(owner(), amount);
}
```


CONTRACT INFO

Token Name

Blastex token

Symbol

BLASTX

Contract Address

0x5C598E410De1214D77EBB166102471065E7b2596

Network

Blast

Language

Solidity

Deployment Date

March 19, 2024

Contract Type

Mintable token

Total Supply

1,000,000

Status

Launched

TAXES

Buy Tax

n/a

Sell Tax

n/a



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| Last transfer date | N/A |
| Days token transferred | N/A |

SMART CONTRACT STATS

| | |
|-----------------------|--|
| Calls Count | N/A |
| External calls | N/A |
| Internal calls | N/A |
| Transactions count | N/A |
| Uniq Callers | N/A |
| Days contract called | N/A |
| Last transaction time | Mar-19-2024 05:10:05 PM +UTC |
| Created | Mar-19-2024 04:58:59 PM +UTC |
| Create TX | 0xa2f4835eccaa89b80c7e0a21302041b7e221e7ccf101d1bf1291b8d607e9b279 |
| Creator | 0x6d9725ffec14648300bc7bc6c9c0dd5ea631b39e |



FOUND THREATS

High Risk

No high risk-level threats found in this contract.

Medium Risk

No medium risk-level threats found in this contract.

Low Risk

No low risk-level threats found in this contract.



FOUND THREATS

Informational

This token can be purchased only via the blasteX's staking contract. Owner can pause new buys.

```
bool public buyLocked = true;
function lockBuy() external onlyOwner {
    buyLocked = true;
}

function _beforeTokenTransfer(address from, address to, uint256 ) internal view override {
    if (address(flip) == address(0) || !buyLocked) {
        return;
    }

    if (from == address(flip) || from == address(uniswapV2Router)) {
        require(
            to == mainContractAddress
            || to == address(uniswapV2Router)
            || to == address(flip)
            || to == address(0),
            "Transfer: only main contract can buy tokens"
        );
    }
}
```



FOUND THREATS

Informational

New tokens can be minted only via the main (staking) contract.

```
function mint(address to, uint256 amount) public {  
    require(msg.sender == mainContractAddress,  
        "Mint: only main contract can mint tokens");  
  
    _mint(to, amount);  
}
```

Owner can set main (staking) contract once.

Main contract is set at address:

0xdC0C0746CA0954E6C2284D1a97cC85474B051EbB

```
function setMainContractAddress(address contractAddress) external onlyOwner {  
    require(mainContractAddress == address(0), "Main contract address already configured");  
    mainContractAddress = contractAddress;  
}
```



According to their whitepaper:

BLASTX Distribution Model:

Bonding

Lock ETH for 5 to 30 days and receive a +5% to +30% bonus in BLASTX tokens.

Liquidity Staking

The transition from Bonding to Staking with profits capped at 150% to maintain perfect balance.

BLASTX Inflation Policy:

Unlimited Emission

Continuous incentives for Bonding and Liquidity Staking activities.

Controlled Inflation

Managed through Bonding, ReBonding, Liquidity Staking, and buyback-and-burning to ensure stability and resilience.

For more info, visit:

<https://blastex.gitbook.io>

TOKENOMICS



Website URL
https://blastex.xyz

Domain Registry
https://namecheap.com

Domain Expiration
2025-01-04

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

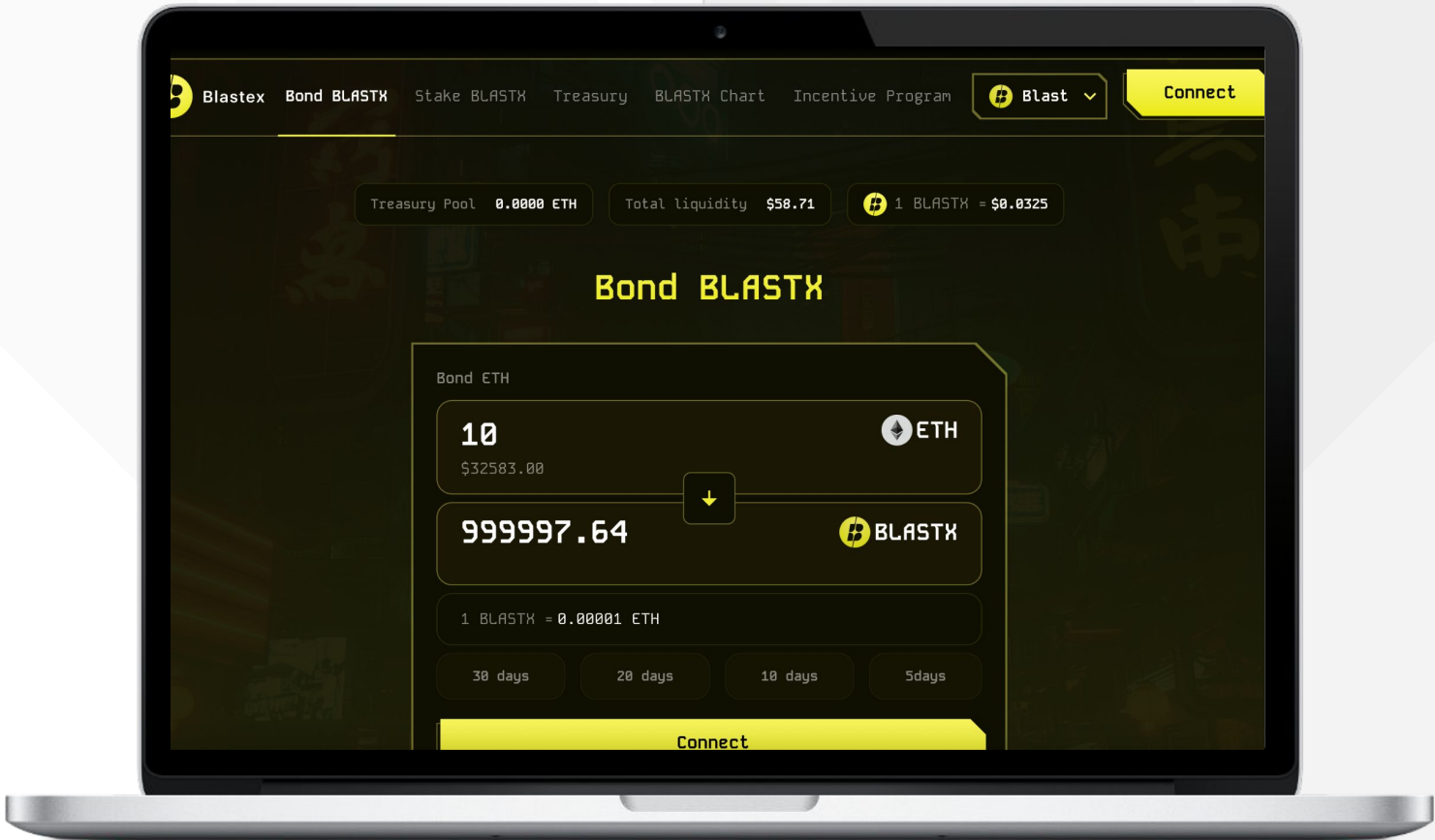
Design
Very nice design with appropriate color scheme and graphics.

Content
The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper
Well written, informative.

Roadmap
No

Mobile-friendly?
Yes



blastex.xyz



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 700 SUCCESSFUL CLIENTS
- ✓ MORE THAN 1000 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.